

THE ANATOMICAL RECORD

MANAGING EDITOR

EDWARD A. BOYDEN

University of Minnesota

ASSOCIATE EDITORS

CHARLES H. DANFORTH

Stanford University

B. C. H. HARVEY

University of Chicago

PHILIP E. SMITH

Columbia University

HAROLD L. WEATHERFORD

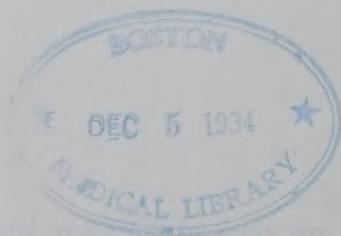
Harvard University

VOLUME 57 AND SUPPLEMENT

AUGUST, SEPTEMBER, OCTOBER, NOVEMBER, 1933

THE WISTAR INSTITUTE OF ANATOMY AND BIOLOGY
PHILADELPHIA

28139



CONTENTS

No. 1 AUGUST, 1933

WILLIAM F. WINDLE AND WILLIAM L. MINEAR. A procedure for decerebrating the rat by the anemia method	1
ALFRED M. LUCAS AND H. L. WHITE. Contractility of the ciliated neck in the <i>Necturus</i> kidney	7
WALTER MODELL. Observations on the lipoids in the renal tubule of the cat. Two plates (six figures)	13
H. W. BEAMS AND R. L. KING. The Golgi apparatus in the developing tooth, with special reference to polarity. Six figures	29
R. L. ZWEMER. A method for studying adrenal and other lipoids by a modified gelatin embedding and mounting technique	41
SAMUEL L. LEONARD. Differential effect of prolactin in decreasing the potency of the hypophysis in normal and castrate rats	45
BARRY J. ANSON. The distal projection of the endolymphatic sac in human embryos. Twenty-five figures	55
ALLAN L. GRAFFLIN. Glomerular degeneration in the kidney of the daddy sculpin (<i>Myoxocephalus scorpius</i>). Twelve text figures and three plates (thirty-five figures) ..	59
S. R. DETWILER. Growth and cell proliferation in heterotopic spinal cord grafts. Fifteen figures	81
GEORGE W. CORNER. <i>Book Review</i> . Sex and internal secretions: A survey of recent research. Written by twenty-one contributors, edited by Edgar Allen. The Williams and Wilkins Company	99

No. 2 SEPTEMBER, 1933

CARL J. SANDSTROM AND JOSEPH T. KAUFER. The growth and differentiation of macerated embryonic duck kidney tissue on the chorio-allantoic membrane of the chick. One plate (three figures)	105
CARL J. SANDSTROM AND GEORGE L. KAUFER, JR. Heteroplastic transplants of duck cartilage to the chorio-allantoic membrane of the chick. One plate (two figures) ..	119
GEORGE B. WISLOCKI. Observations on the descent of the testes in the macaque and in the chimpanzee. Two plates (eight figures)	133
AURA EDWARD SEVERINGHAUS. A cytological study of the anterior pituitary of the rat, with special reference to the Golgi apparatus and to cell relationship. Four text figures and two heliotype plates (twenty-two figures)	149
P. E. SMITH, A. E. SEVERINGHAUS AND S. L. LEONARD. The effect of castration upon the sex-stimulating potency and the structure of the anterior pituitary in rabbits. One plate (two figures)	177
OSCAR RIDDLE AND THEODORA C. NUSSMANN. A sex difference in pituitary size and intestinal length in doves and pigeons	197

No. 3 OCTOBER, 1933

R. R. BENSLEY AND I. GERSH. Studies on cell structure by the freezing-drying method. I. Introduction. Four figures	205
R. R. BENSLEY AND I. GERSH. Studies on cell structure by the freezing-drying method. II. The nature of the mitochondria in the hepatic cell of <i>Amblystoma</i> . Two plates (nine figures)	217
A. DEFRISE. Some observations on living eggs and blastulae of the albino rat. Nine figures	239
WILFRED F. HEINBACH, JR. A study of the number and location of the parathyroid glands in man. Three plates (twenty-six figures)	251
C. G. HENRY. Studies on the lymphatic vessels and on the movement of lymph in the ear of the rabbit. Four figures	263
ALDEN B. DAWSON. The absorption of India ink by the mesonephric epithelium of <i>Necturus maculosus</i> . One text figure and one plate (six figures)	279
H. E. RAWLINSON. Cytological changes after autonomic and adrenalin stimulation of the cat's submaxillary gland. Two plates (eight figures)	289
EVANGELINE ALDERMAN. An experimental study of the relationship of flask cells to molting in <i>Triturus viridescens</i> . Five figures	303

No. 4 NOVEMBER, 1933

FREDERICK E. EMERY. The anterior pituitary sex hormone in relation to the prolongation of estrous cycles, and the production of a refractory condition to theelin. One figure	315
R. D. BAIRD AND J. S. COPE. On the terminations of the circumflex veins of the thigh and their relations to the origins of the circumflex arteries. One figure	325
EDUARDO BUNSTER AND ROLAND K. MEYER. An improved method of parabiosis. Two figures	339
RICHARD L. WEBB. Observations on the propulsion of lymph through the mesenteric lym- phatic vessels of the living rat. One figure	345
ALDEN B. DAWSON. The leucocytic reaction in <i>Necturus maculosus</i> to intravascular injec- tions of colloidal carbon, with special reference to the behavior of the basophiles and thrombocytes. One plate (ten figures)	351
W. T. POMMERENKE. The cyclic relaxation of the pelvic ligaments in the guinea pig. One figure	361
R. R. BENSLEY AND I. GERSH. Studies on cell structure by the freezing-drying method. III. The distribution in cells of the basophile substances, in particular the Nissl sub- stance of the nerve cell. One plate (three figures)	369
GLENN A. DEIBERT. The separation of the prepuce in the human penis. One text figure and three plates (nine figures)	387
CARL G. HARTMAN. <i>Book Review</i> . Life in the making or the story of human procreation. By Alan Frank Guttmacher. Viking Press	401
AMERICAN SOCIETY OF ZOÖLOGISTS. Thirty-first session: Program, Constitution and By-laws, and Abstracts of papers	Sup. 1